

# Subtracting Mixed numbers with Renaming

... in three easy steps!

Step 1: Write equivalent fractions by finding the LCD.

$$\begin{array}{r} 8\frac{1}{2} \times \frac{3}{3} = 8\frac{3}{6} \\ - 5\frac{2}{3} \times \frac{2}{2} = 5\frac{4}{6} \\ \hline \end{array}$$



hmm...

I can't subtract

$\frac{4}{6}$  from  $\frac{3}{6}$ ; so I have to rename!

Step 2: Rename if necessary.

$$8\frac{3}{6} = 7\frac{6}{6} + \frac{3}{6} = 7\frac{9}{6}$$



yeah!

now it is possible

Step 3: Find the difference & simplify if needed.

$$\begin{array}{r} 8\frac{1}{2} = 8\frac{3}{6} = 7\frac{9}{6} \\ - 5\frac{2}{3} = 5\frac{4}{6} = 5\frac{4}{6} \\ \hline \end{array}$$

$$2\frac{5}{6}$$

You can also subtract from a whole number!

$$7 - 2\frac{3}{4}$$

think of 7 as  $6\frac{4}{4}$ , now solve!

$$\begin{array}{r} 7 = 6\frac{4}{4} \\ - 2\frac{3}{4} = - 2\frac{3}{4} \\ \hline 4\frac{1}{4} \end{array}$$



Since the other fraction's denom. is 4, I'll use 4 as the new denom., too!